DOCUMENT RESUME

ED 278 388 IR 012 522

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TITLE Microcomputers in Schools. CET Information Sheet 1.
INSTITUTION Council for Educational Technology, London (England).
PUB DATE Jul 86
NOTE 15p.
AVAILABLE FROM Council for Educational Technology, 3 Devonshire Street, London W1N 2BA England (free while supply lasts).
PUB TYPE Reference Materials - Bibliographies (131) -- Reference Materials - Directories/Catalogs (132)

EDRS PRICE MF01/PC01 Plus Postage.
DESCRIPTORS Annotated Bibliographies; *Computer Assisted Instruction; *Computer Software; Directories; Elementary Secondary Education; Foreign Countries; *Information Sources; Inservice Teacher Education; Interactive Video; *Microcomputers; *Organizations (Groups); *Reference Materials; Special Education
IDENTIFIERS Microelectronics; *United Kingdom

ABSTRACT

This guide to references and sources of information for those exploring the use of microcomputers in secondary education, especially in the United Kingdom (UK), begins with brief descriptions of several government-sponsored projects to help students and colleges prepare for a microelectronics society. The guide then presents: (1) annotated bibliographies of books and journals on the educational uses of microcomputers; (2) advice on hardware selection and resource guides for further reading; (3) sources of information on computer software and software suppliers; (4) a directory of organizations that supply information on or offer services for teacher training, development of curriculum materials, special education, research and development, applications of microtechnology, microcomputers in primary education, small computer systems, support materials for teaching and learning, interactive video, and electronic mail; (5) a list of local education authority (LEA) officers in England, Wales, Northern Ireland, and Scotland who provide advice on microelectronics and/or computing; and (6) a list of recent Council for Educational Technology (CET) publications relevant to the use of computers in schools. (DJR)

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Information Sheet 1

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Microcomputers in Schools

This information sheet is intended to provide a list of references and sources of help or information to those who wish to explore the use of microcomputers in secondary education. It is an introductory guide, and hopes to advise those struggling with the "first steps" of working with computers in schools, and to indicate further stages.

The story so far

In Spring 1980 the Government allocated £10.3 million to help students and colleges in the UK to prepare students for life in a society in which devices and systems based on microelectronics are commonplace and pervasive. Two national centres for this programme were established.

The Microelectronics Education Programme was established in England, Wales and Northern Ireland. This was based in Newcastle, and directed by Richard Fothergill. The programme established 14 Regional Information Centres over the country, operating over several Local Education Authorities, which organised teacher training and courses on specific information technology topics and collected libraries of software, books, and other materials for teachers in their regions. In March 1986 MEP came to an end, but some of these Information Centres still exist. (For information on these, contact the local education authority Adviser for Computer Education).

Recently, the Department of Education & Science has funded MESU - the Microelectronics in Education Support Unit, which will begin work in the Autumn of 1986, to consolidate the achievements of MEP, and to provide information from a national centre, to train trainers and provide teaching and other support materials.

IR012522

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July 1986

In Scotland the Scottish Microelectronics Development Programme (SMDP) was established, and provided information, resources and training for education in Scotland, supplying software through a series of distribution centres. The Scottish Council for Educational Technology now continues the work of SMDP. For further information on SCET contact Dennis Daley, SCET, Dowanhill, 74 Victoria Crescent Road, Glasgow G12 9JN. Telephone 041 357 0430.

Reading

There are an increasing number of books on the educational uses of microcomputers, the following have been selected with the beginner in mind.

Books

The Three C's: Children, Computers and Communication, by Tom Stonier and Cathy Conlin, John Wiley, £7.50, 1985, pp. 218. ISBN 0471 908282. The authors of this combine appreciation of the theoretical aspects of the influence of new technologies on society and education, with practical experience in school teaching, so offer an informed and useful discussion of computers in schools.

Computers and Literacy, by Daniel Chandler and Stephen Marcus, Open University, 1985 £6.95, pp. 155. ISBN 0335 150314. This discusses the problems of the introduction of computers into education and specifically into literacy teaching. Fundamental issues are discussed as well as classroom examples. The book includes a guide to software.

Handbook of Primary Education and Computing, by David Ellingham, Castle House Publications, 1984, £7.50, pp. 156. ISBN 0719 401011. This is a practical guide as to how to introduce microcomputers into the classroom, how to manage them, and the problems and benefits. It includes lists of programs for primary and junior schools, and useful recommendations on the actual classroom use of these.

New Information Technology in Education, by David Hawkridge, Croom Helm, 1983, £11.95, pp. 238. ISBN 0709 912355. This provides an introduction to information technology, with examples of how it is being used in education, both in the UK and overseas. The author considers the problems of using new information technology in education at all levels, and ends with a view of the future.

An Introduction to Microcomputers in Teaching, by A Nash and D Ball, Hutchinson, 1982, £6.60, pp. 328. ISBN 0091490316. This book looks at the role of the computer in teaching and provides case studies in both teaching styles and programming. There is a useful chapter on the potential and limitation of graphics. Programs listed in the book are available on disc for the 380Z.

Microcomputers in the Classroom, by Alan Maddison, Hodder & Stoughton, 1982, £4.65, pp. 189. ISBN 0340 276886. A clear, concise introduction dealing with the topic at a basic level, covering both computers as an educational aid and for administration.

Journals

Computer Education (3 issues per year). Although primarily concerned with teaching about computers, this publication, produced by the Computer Education Group of the British Computer Society, also carries articles on computer-based learning in schools. Membership of the Computer Education Group is £7.00. Computer Education Group Treasurer, North Staffs Polytechnic, Computer Centre, Blackheath Lane, Stafford ST18 0AD. (0785 53511).

Computers in Education. This is basically a monthly survey of new software, hardware and print materials available for educational computing. It includes information on courses and qualifications, software reviews, and feature articles on topics such as business studies and networking. It is available from Presshouse Publications Ltd, Queen Street, Hook Norton, Oxfordshire OX15 5PH, for £12.00 a year.

Computers in Schools (4 issues per year). The journal of MUSE (see page 8) which is free to members or available price £1.75 per issue. This is one of the most useful journals for the practising teacher, providing a forum for those with experience of using microcomputers to discuss problems and share experience.

Educational Computing (£15.00 for 11 issues; £1.40 single copy). A commercial publication which is devoted to the use of computers in education. Along with Computers in Schools this is essential reading. Educational Computing, Priory Court, 30-32 Farringdon Lane, London EC1R

Journal of Computer Assisted Learning. This journal contains both practical and research articles on CAL in school and college education. Published 3 times a year, it is available from Blackwell Scientific Publications, Osney Mead, Oxford OX2 0EL, for £7.50 a year.

Microscope. This is the journal of MAPE, Micros and Primary Education and provides articles written by primary teachers on their classroom computing activities. It is available free to members of MAPE (see page 6) or single copies from Castlefield Publishers Ltd, Newton Close, Park Farm Industrial Estate, Wellingborough, Northants NN8 3UW.

Primary Teaching and Micros (bi-monthly single copies £1.35, subscription £7.50 per annum). Subscription Dept., Scholastic Publications Ltd, FREEPOST, Westfield Road, Southam, Leamington Spa, Warwickshire CV33 0BA.

Of the increasingly large number of magazines and journals which are produced commercially, the following sometimes include articles or have advice sections which may be of interest to those in education. They are available in newsagents.

Acorn User £17.50 per annum. Redwood Publishing, 141-145 Drury Lane, London WC2B 5TF.

Personal Computer World (monthly - £1.10, subscription £11.00 per annum). Computing Publications Ltd, 32-34 Broadwick St, London W1A 2HG.

Practical Computing (monthly £1.25, subscription £16.50 per annum). Subscription Manager, IPC Business Press Ltd, Oakfield House, Perrymount Road, Haywards Heath, Sussex RH16 3DH.

Equipment

Advice on hardware is available from a number of sources. Those who are new to the subject should benefit from reading USPEC 32: A Guide to the Selection of Microcomputers (free from CET). It deals, among other things, with the different kinds of educational applications involving the use of microcomputers and with the equipment and programming requirements for these applications. Other relevant USPECs include USPEC 32a: A Guide to the Selection of Printers for Microcomputers 1982, USPEC 32b Word Processing Systems in Education: a guide to the applications and selection of suitable equipment 1982, and USPEC 32c A Guide to the use of Microcomputers for real-time applications in control/monitoring systems. For a full list of USPECs see below.

Reading though is only a first step. Before deciding on a particular machine it is extremely important that teachers contact the local advisers for computer education (see page 2) in order to determine whether the authority has standardised on a particular machine or whether it recommends a particular supplier.

Computer Programs

Information about Software

Since 1982 Educational Computing has devoted part of each issue to guides to software, and reviews of new programs. Back copies are obtainable from Educational Computing Magazine Services Department, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

Acorn User publishes reviews of software, and have compiled a database of software for the Acorn, comprising over 800 programs by more than 200 publishers.

Educational Software Directory, by J Arthur and T Russell, is published by Macdonald and Evans Ltd, for £12.50, and contains details of 1,000 programs.

Research Machines Ltd, Mill St, Oxford OX2 0BW, publish a catalogue of secondary school software for Research Machines, and a catalogue of software for the Nimbus.

Rickitt Educational Media are distributors of educational software for the Acorn and for other computers, and publish an Educational Software Directory, this is available from Rickitt Educational Media, Ilton, Ilminster, Somerset TA19 9HS.

Sources of Software

MEP was responsible for the production of a considerable quantity of software before 1986. For information about this software, either contact individual publishers (such as Longman, Tecmedia), or contact the LEA adviser for computing. A list of these is on page 9.

SCET develops and maintains a library with a large number of educational packages for the principal microcomputers in use in Scottish education. The packages are for ages from early primary to further education, covering most curriculum subjects. This software is available throughout Scottish education without copyright restrictions and is sold in other countries by agreement through SCETLANDER Ltd (contact SCET, address on page 7).

The list below contains details of only a few of the major software suppliers.

1. **Addison Wesley Publishing Ltd**
Addison-Wesley Publishing Ltd, Finchampstead Road, Wokingham RG11 2NZ. Addison-Wesley publish books and educational software, and have also published the Information Technology Project - a modular course in IT for secondary schools, and the Computer Applications Project, which is four microcomputer simulations of commercial computer applications.

2. **Akadimias Software**
Akadimias Software, University College of North Wales, Bangor LL57 2DG. These are history, literature and sociology programs for secondary and junior schools produced by university staff.

3. **AUCBE**
The Chiltern Advisory Unit for Computer Based Education has a range of educational packages available for RML and BBC microcomputers. Most are available through an LEA licence scheme, but they can also be ordered direct from: AUCBE, Endymion Road, Hatfield, Herts AL10 8AU Tel: 07072 65443. Details and ordering facilities are also on Prestel page 28805.

4. **Cambridge University Press**
Cambridge University Press publishes programs produced by Cambridge Micro Software, Homerton College and Netherhall Software mostly for the Acorn both disc and cassette. Some of the programs are cross-curricular. Subjects include languages, physics, chemistry and mathematics. For further information contact Lorna Williams, Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CR2 2RU.

5. **Capital Media**
The MEP Capital Regional Information Centre has produced several discs of programs for RML and BBC micros, mainly mathematics for primary and secondary schools, games and practical activity programs and are available from ILECC, John Ruskin Street, London SE5 0PQ.

6. **Chelsea Science Simulations**
The materials of this project at Chelsea College comprise computer simulations of experiments which for reason of expense, danger or time involved may not be possible in the classroom or school laboratory. The project has ten simulations in biology, physics and chemistry for 380Z, 480Z, Apple II and PET systems. Each pack costs £13.50 and may be obtained from Edward Arnold Publishers Ltd, 41 Bedford Square, London WC1B 3DQ.

7. **Garland Computing**
Garland Computing supplies biology, physics and maths programs for the BBC model B. Also available are a set of programs on French grammar and language for the Spectrum. Prices range from £6-27. Contact Garland Computing, 35 Dean Hill, Plymouth PL9 9AF Tel: 0752 41287.

8. **Heinemann Computers in Education Ltd**
Heinemann supplies secondary level programs. Subjects covered include biology, mathematics, physics, geography and engineering and cost £12.50 each plus p&p. Discs are available for the Apple II, RML 380Z and BBC micro and a query service is available should any problems be encountered with the packages. Contact: HCE Ltd, 22 Bedford Square, London WC1B 3HH Tel: 01-637 3311.

9. **Hutchinson**
Hutchinson produces packages for a variety of machines including PET, BBC and 380Z. These include a readability assessment program, one on timetabling and an author language enabling teachers to create their own CAL programs. Also available are programs for PET, BBC and Sinclair machines which support the books 'Microcomputers in Science Teaching' and 'The BBC Microcomputers in Science Teaching' by R A Sparkes. 'An Introduction to Microcomputers in Teaching' by A Nash & D Ball is 20, short, simple programs on various subjects. Contact: Hutchinson Software, FREEPOST 5, London W1E 4QZ Tel: 01-387 2811.

10. **Longman Micro Software**
Longman publishes programs from sources including the ITMA project in Plymouth and the Computers in the Curriculum project at Chelsea College. Most packages are available for RML 380Z and 480Z cassette and disc, BBC model B cassette and disc and the Apple, disc only. Programs are supported by students' booklets, teachers' guides and technical guides, and cover the school curriculum from physics to social studies, art and design including some school administration programs and are for both secondary and primary schools. Prices range from £10-£20. Contact: Longman Micro Software, 33-35 Tanner Row, York YO1 1JP Tel: 0904 20801.

11. **Micronet 800**
Micronet 800 in education offers schools and colleges an inexpensive way to expand their range of software and gain computing experience. Schools with appropriate hardware and modems can link in with other schools and educational users around the country to swap ideas, techniques and programs written by students and teachers - using the system's educational exchange library. There is a quarterly subscription. For further information contact: Micronet 800, EMAP Business & Computer Publications Ltd., Durrant House, 8 Herbal Hill, London EC1 5JB.

12. **MUSE Software Library**
The MUSE software catalogue contains over 180 programs which have been assessed by teachers, and which in the opinion of MUSE are educationally useful and reliable. Programs are available for most machines, and there is an indication of the approximate level for which the program is intended. Subjects included are maths, statistics, physics, chemistry, biology, geography and history. Prices range from £1-£5. Contact MUSE, PO Box 43, Houghton on the Hill, Leicestershire LE7 9GX. Tel: (0533) 433839. (For further information on MUSE see page 8).

13. **NELCAL**
Thomas Nelson have produced a series of programs suitable for computer awareness and computer science courses which complement their text-books. Discs are available for RML 380Z, PET and Apple. Also available are chemistry and maths programs suitable for A-level study. Contact: NELCAL, FREEPOST, Thomas Nelson & Sons Ltd, 51 York Place, Edinburgh EH1 0AU.

14. **Tecmedia**
Tecmedia published many MEP materials, including the Micro Primer packs and Micro Viewdata which enables users to create their own viewdata system. Contact: Tecmedia, 5 Granby St, Loughborough LE11 3DU. Tel: (0509) 230_248.

15. **WIDA Software**
WIDA software supplies modern language programs which include sound cassettes, and also an authoring system to enable teachers to write their own programs. Contact: WIDA Software, 2 Nicholas Gardens, London W5 5HY.

Other sources of information

Microelectronics Education Support Unit (MESU)
This is the successor to the Microelectronics Education Programme (MEP) in England, Wales and Northern Ireland. It is funded at £3 million a year, and planned to run for 5 years from 1986. Working from a national centre at Warwick, MESU will provide support to LEAs and teacher training institutions in the development and integration of the new technologies in schools. It will provide a central information source, and a service for training and trainers. It will also commission the development of curriculum materials and continue work in Special Education through the network of Special Education Microelectronics Resource Centres (SEMERCS - for further information on these contact Mary Hope at CET).

The director of MESU is John Foster and the address is still to be finalised.

The Scottish Council for Educational Technology (SCET)
In Scotland, SCET continues the work of SMDP. Software is distributed to schools in Scotland through a network of distribution centres and sold elsewhere through SCETLANDER (see above). SCET promotes a programme of research and development in the use of microelectronics in education through its Microelectronics in Education Committee, and provides an information service on the use of computers in education. The Schools Computer Administration and Management Project (SCAMP) is based at SCET. The Special Educational Needs Database (SEND), consisting of more than 3000 pages of information on microelectronics and special educational needs is managed and maintained by SCET. For further information on SCET contact Dennis W Daly, Assistant Director, SCET, Dowanhill, 74 Victoria Crescent Road, Glasgow G12 9JN. Tel: 041-334 9314.

British Broadcasting Corporation (BBC)
The BBC has developed a range of series concerned with the applications of microtechnology, beginning with the Computer Literacy Project.

Materials produced by the project include videos of the BBC programmes which range from an initial series on computer basics for beginners, to programmes on the electronic office, and an introduction to robotics. Further details on the Computer Literacy Project may be obtained from BBC Broadcasting Support Services, PO Box 7, London W3 6XJ. Broadcasting Support Services also maintain a computer referral service, offering information on computer courses, computer clubs, user groups and sources of advice for training.

The BBC also produces computer programs, which use the computer to teach curriculum subjects. A catalogue of BBC software is available from BBC Publications, 35 Marylebone High Street, London W1M 4AA.

Full information on the BBC's role in computer education can be found in 'Computerfax' which is the guide to BBC and Open University resources in computing, is available from BBC, Broadcasting Support Services.

Independent Schools Microelectronics Centre
This centre, which was set up on the initiative of the Headmasters' Conference, serves subscribing independent schools. Its major concerns include the provision of in-service training, developmental work in electronics and computer software, evaluation of software and the development of a software reference library. Contact: Mrs Elizabeth Sabey, Westminster College, North Hinksey, Oxford OX2 9AT Tel: (0865) 57644 X215.

Micros and Primary Education (MAPE)
This group aims to promote the use of microcomputers in primary education. It publishes a newsletter (Microscope, see page , and organises an annual national conference and courses and workshops on a regional basis. Membership is £10 a year. For further information contact MAPE Administration, 76 Sudbrooke Holme Drive, Sudbrooke, Lincs LN2 2SF Tel: (0522) 754408.

Microcomputer Users in Education (MUSE)
This group exists to help teachers and their establishments to make effective use of small computer systems. Information and ideas are exchanged at meetings and through the journal Computers in Schools. Courses are run and advice is available on all aspects of hardware and software. The development of teaching packages and other educational applications is pursued and encouraged and original work is reported. Annual subscription is £13.50 by standing order or £15 otherwise. Contact: MUSE, PO Box 43, Houghton on the Hill, Leicestershire LE7 9GX Tel: 0533 433839. (see also page 3).

National Educational Resource Information Service (NERIS)
This is a new computerised information service funded by the Department of Trade and Industry which aims to meet the needs of schools and other educational establishments for information on resources available for teaching and learning. It will simplify the task of locating and obtaining good quality learning materials, by providing a central source for information. The address is David Taylor, Director, National Educational Resources Information Service, Maryland College, Leighton Street, Woburn MK17 9JD Tel: (0525) 25364.

National Interactive Video Centre
Interactive video offers a combination of the possibilities of interactive computer assisted learning and the many precise images which can be stored on videodisc. The chief users of this have been in industrial training, but there are educational applications. CET has established the National Interactive Video Centre to encourage the use of interactive video in training and education, provide demonstrations and workshops as well as information. For further information contact: Claire Bayard-White, Information Officer, National Interactive Video Centre, 27 Marylebone Road, London NW1 5J Tel: 01-935 8190.

The Interactive Video in Schools Project, based at the NIVC
This project was set up in October 1985 with funds from the Department of Trade and Industry and is scheduled to run until March 1988. Its aim is to produce a range of interactive video discs in various subject areas for use across the curriculum at both primary and secondary level and then to investigate their suitability as a learning resource. There are eight individual projects based at different locations throughout the UK. For further details contact Bill Plummer at the NIVC.

Prestel Education Service
The Prestel Education Service enables schools to gain direct experience of an electronic interactive information system. Educational information on Prestel includes: School Link, news on educational computing, CDIC careers guide, the ECCTIS guide to further and higher education courses, the POLYTEL course vacancy service, the SEND special educational needs database and an educational telesoftware and mailbox service. For further information contact: Prestel Education, Telephone House, Temple Avenue, London EC4Y 0HL Tel: 01-822 1012.

Times Network for Schools
Times Network for Schools is an electronic mail noticeboard and database service. It offers information gathered from LEAs and commercial subscribers, including a careers service, software and resources information. For further information contact: Times Network for Schools, News International plc, PO Box 7, Grays Inn Road, London WC1X 8EZ.

2889 Educational Software Catalogues on Prestel
A catalogue of over 250 programs for schools, with ordering facilities through Prestel. For further information contact: AUCBE, Endymion Road, Hatfield, Herts AL10 8AU Tel: (07072) 65443.

List of advisers

Local education authority officers who have responsibility for providing advice on microelectronics and/or computing.
*Address is Education Offices as in the Education Yearbook 1986.

England and Wales

*Avon	Dr P Johnston, Computer Educ Adviser, Bristol (0272) 290777
Barking	Mr J Gordon, Chief Insp Schools, Advisory Service, Westbury Ctre, Ripple Rd, Barking 1G11 7PT (01) 594 4969
*Barnet	Mr A Ley, Teacher Coord Comp Ed, Friern Barnet (01) 368 1255
*Barnsley	Mr A Haigh, Math Computing Adviser, Barnsley (0226) 87621 X232
*Beds	Mr D A Sledge, Adviser for CBE, Bedford (0234) 63222
*Berkshire	Mr C C Monson, Computer Ed Adv, Reading (0734) 875444 X3677
*Bexley	Mr J D Keeble, Math & Science Adv, Crayford (01) 303 7777 X506
*Birmingham	Mr T M Reeve, General Inspector, Birmingham (021) 235 2590
*Bolton	Mr M P Ingham, Senior Adviser, Bolton (0204) 22311
*Bradford	Mr B C Parkes, Adviser Techn, Bradford (0274) 752 111
*Brent	Mr J Lewandowski, Computer Adviser, Wembley (01) 903 1400
Bromley	Mr M P Gossage, Insp Comp Ed & Tech, Curriculum Develop Centre Church Lane, Bromley BR2 8LD (01) 462 8912

*Bucks	Mr R Conibear, Adv Info Tech, Aylesbury (0296) 5000
*Bury	Mr B Burke, Adv Maths & Microelect, Bury (061) 761 5121
*Calderdale	Mr T J Scratcherd, Adv Comp Ed, Halifax (0422) 57257
*Cambs	Mr R Bartlett, Adv Comp Ed, Cambridge (0223) 317111
*Cheshire	Mr J A Dodridge, Maths & Comp Studies, Chester (0270) 602424
Cleveland	Mr H J Curtis, Comp Ed Adv, Educational Computing Centre, Prissick Base, Marton Rd, Middlesborough TS4 3RZ (0642) 325417
*Clywd	Mr C A Barber, Math Adv, Mold (0352) 2121
*Cornwall	Mr I White, Adv Comp Ed & IT, Truro TR1 3BA (0872) 74282
*Coventry	Mrs B Rayson, Comp Ed Adv, Coventry (0203) 25555 X2695
*Croydon	Mr P McGee, Gen Insp, Croydon (01) 686 4433 X2284
Cumbria	Mr J A Corbett, Microelect Inf Officer, Micro Centre, School Library Service, Botchergate, Carlisle CA1 1RZ (0228) 45404
*Derbyshire	Mr S J Bacon, Adv Comp Ed, Matlock (0629) 3411
*Devon	Mr J L Ralston, Comp Ed Adv, Exeter (0392) 77977
Doncaster	Mr B Pryce, Doncaster Ed Comp Centre, Beechfield Teachers' Centre, Chequer Rd, Doncaster DN1 2AF (0302) 734267
Dorset	Mr R Cory, Math Adv, E. Office, Bournemouth (0202) 22066 X566
*Dudley	Mr A Wood, General Adv, Dudley (0384) 55433
*Durham	Mr R A Langham, Sen Adv, Durham (0385) 64411
*Dyfed	Mr C Davies, Comp Liaison Officer, Carmarthen (0267) 4591 X54
*Ealing	Mr A Richardson, Ed Inspect, Ealing (01) 579 2424 X3743
*East Sussex	Mr I R Elliott, Adv Ed Tech/Comp Ed, Lewes (0273) 475400
*Enfield	Mrs J H Bennett, Adv Teacher Comp Ed, Enfield (01) 366 6565
*Essex	Mrs S M Leverett, Insp Computer Ed, Chelmsford (0245) 267222
Gateshead	Mr M R Hall, Teacher Adv Comp Ed, Teachers' Centre, Evistones Rd, Gateshead NE9 5UR (091) 482 4133
*Gloucs.	Mr M J Savory, Microelect Adv, Gloucester (0452) 425000
Guernsey	Mr R Couch, Asst Warden, Guernsey Teachers' Centre, Grnville Hse, Mount Durand, St Peter Port, Guernsey (0481) 20654
Gwent	Dr P H Hepburn & Mr P J Cathcart,Comp Ed Adv, Ctre Comp Ed, St Andrew's Sch, Corporation Rd, Newport, Gwent NP9 0GP (06333) 67711
*Gwynedd	Dr H G Roberts, Math Comp Adv, Caernarfon (0286) 5831/4121
*Hampshire	Mr D L Bothwell, Sen Sec Adv, Winchester (0962) 54411 X466
*Haringey	Mr J A Cordingley, Gen Adv Maths, Wood Green (01) 811 3000 X3221
*Harrow	Mr R Higham, Adv Teach Comp Ed, Harrow (01) 863 5611
Havering	Mr W R Broderick, Adv Comp Services, Ed Comp Ctre, Tring, Harold Hill, Romford, Essex RM3 9QX (04023) 49115
Hereford & Worcs	Mr J Foster, Insp Ed Techn, Micros & Ed Tech, Perdiswell Primary School, Bilford WR3 8QA (0905) 51599
Herts	Dr W Tagg, AUCBE, Endymion Rd, Hatfield AL10 8AU (07072) 65443
*Hillingdon	Mr J A Whatley, CDT Adv, Uxbridge (0895) 50111
*Hounslow	Ms P Askew, Ed Adv, Hounslow (01) 570 7728
Humberside	Dr I Birnbaum, Gen Adv Microelect in Ed, Ed Centre, Park Ave, Hull HU5 4DA (0482) 42642
*Inner	Mr D M Esterson, Staff Insp Comp Ed, (01) 633 2044
London	Mrs A Liles, Comp Ed Insp, Mr B Weaver, Dist Insp Comp Ed. ILECC, John Ruskin St, London SE5 0PQ (01) 735 9123
*Isle of Man	Mr R B Cowin, Ed Adv, Douglas (0624) 26262
*I.of Scilly	Mr I Glover, Sec for Ed, St Mary's (0720) 22537
*I.of Wight	Mr F Gregory, Comp Ed Adv, Newport (0983) 524031 X182
*Jersey	Mr P Carpenter, Comp Adv, Jersey (0534) 71065
*Kent	Mr P E Walker, Insp Comp Ed, Maidstone (0622) 671411 X2421
*Kingston	Mr J W Lucas, Gen Insp, Kingston on Thames (01) 546 2121 X2501
*Kirklees	Mr C Williams, Ed Adv, Huddersfield (0484) 37399
*Knowsley	Mr C W Rodda, Sen Adv, Huyton (051) 480 5111

*Lancashire	Dr A G Dunn, Comp Ed Adv, Preston (0772) 54868 X3659
*Leeds	Mr R D Masterson, Ed Adv, Leeds (0532) 463000
*Leics	Mr J S Newton, Comp Ed Adv, Leicester (0533) 871313 X695
*Lincs	Mr R Jones, Ed Insp Microelect, Lincoln (0522) 29931
*Liverpool	Mr T W Comer, Math Adv, Liverpool (051) 236 5480
*Manchester	Mr P Murphy, Comp Ed Adv, Manchester (061) 228 2191
Merton	Mr J Cable, Ed Adv, Station Hse, London Rd, Morden, Surrey SM4 5DR (01) 542 8101 X24
*Mid Glam.	Mr D A Timbrell, Comp Ed Adv, Cardiff (0222) 28033
Newcastle on Tyne	Mr R A Edwardson, Inf Tech Adv, Pendower Teachers' Ctre, West Rd, Newcastle upon Tyne (091) 274 3620
*Newham	Mr D Haggerstone, Science Adv, Stratford (01) 534 4545 X5726
*Norfolk	Mr J Jackson, Math Adv, Norwich (0603) 611122
*Northants	Mr M W Lovett, Comp Ed Adv, Northampton (0604) 34833 X5438
N Tyneside	Mr D J Maxwell, Ed Adv, King Edward Micro Ed Unit, Preston Rd, North Shields, North Tyneside (0632) 576621
*Northumbl'd	Mr R E Smith, Teacher Adv Ed Tech, Morpeth (0670) 514343
*N.Yorkshire	Mr B M Ives, Microelect & Comp Adv, Northallerton (0609) 3123
Notts	Mr K Atkin, Insp Comp Ed, Computer Ed Ctre, Eaton Hall International, Retford, Nottinghamshire (0602) 283401
Notts	Mr K H Dyson, Adv Comp Ed, Rushcliffe Ed Office, 19-21 Musters Rd, West Bridgford, Nottingham NG2 7PP
Oldham	Mr C P Hewson, Adv Science & Comp Ed, Teachers' Centre, Town Hall, Rochdale Rd, Royton, Oldham OL2 6QG (061) 678 4230
*Oxfordshire	Mr D Walton, Micro-Tech Adv, Oxford (0865) 722422
*Powys	Mr J R Wilson, Math Adv, Llandrindod Wells (0597) 3711
*Redbridge	Mr B Hughes, Adv Maths & Comp Ed, Ilford (01) 478 3020
*Richmond	Mrs P H Bracegirdle, Sci & Math Adv, Twickenham (01) 891 1433
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*Rotherham	Mr D C Harris, Ed Adv, Rotherham (0709) 382121
*St Helens	Mr J H Whittaker, Sen Adv, St Helens (0744) 24061 X2441
Salford	Mr J G Harris, Ed Adv, Salford Resources Centre, Half Edge Lane, Eccles M30 9GJ (061) 788 9367
*Sandwell	Mr N E Power, Gen Adv, West Bromwich (021) 525 7366 X13
*Sefton	Mr J Hall, Maths & Comp Adv, Bootle (051) 933 6003
*Sheffield	Mr B R Steven, Comp Ed Adv, Sheffield (0742) 26341
*Shropshire	Mr P Massey, Comp Ed Adv, Shrewsbury (0743) 222100
*Solihull	Mr J R Whittell, Insp Info Tech, Solihull (021) 705 6789 X470
*Somerset	Mr D K Woodward, Insp Comp Ed, Taunton (0823) 73451 X5805
*Sth Glam.	Mr T Jones, Chief Adv, Cardiff (0222) 44291 X287
South Tyneside	Mr L G Decyk, Adv Ed Tech, Resources Centre, St Michael's Avenue North, South Shields NE33 3AE (0632) 552864
Staffs	Mr M Grime, Comp Ed Insp, Educational Computer Ctre, Unity Hse Broad St, Hanley, Stoke on Trent ST1 4QP (0782) 29611
*Stockport	Mr R West, Ed Adv, Stockport (061) 480 4949 X700
*Suffolk	Mr B Massey, Adv Comp Stud, Suffolk (0473) 55801
*Sunderland	Mr T Walker, Math Adv, Sunderland (0783) 41311/(0783) 76161
*Surrey	Dr G Searle, Gen Insp Tech in Ed, NE Ed Office, Weybridge (0932) 52811
*Sutton	Mr J Moon, Gen Insp, Carshalton (01) 661 5712
*Tameside	Mr S R Osborne, Math Adv, Ashton under Lyne (061) 330 8855
*Trafford	Mr M MacLeod, Science Adv, Sale (061) 973 2253 X202
*Wakefield	Mr R Heath, Ed Adv, Wakefield (0924) 370211 X8006
*Walsall	Mr J M Leonard, Insp Math Comput, Walsall (0922) 21244 X2348
*Waltham For.	Mr P Scott, Math Adv, Leyton (01) 527 8147
*Warwicks	Mr M J Wild, Comp Ed Insp, Warwick (0926) 493431
*W.Glam.	Mr D C Gray, Math Adv, Swansea (0792) 468946

*W Sussex	Mrs J A Morgan, Math Adv, Chichester (0243) 777100
*Wigan	Mr W Greenwood, Ed Adv, Wigan (0942) 494929
*Wiltshire	Mr E J Larkin, Comp Stud Adv, Trowbridge (02214) 3641 X2328
*Wirral	Mr S A Wood, Organiser Microelect, Birkenhead (051) 647 7003
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*Belfast	Mr R Gribben, Ed Adv, Belfast (0232) 229211
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*Southern	Mr A S McConnell, Asst Ed Officer, Armagh (0861) 523811 X256
Sth Eastern	Mr R D Whitley, Education Adviser, Rathvarna Teachers' Centre, 22 Pond Pk Rd, Lisburn, Belfast BT28 3LF (08462) 70662
*Western	Mr J Murray (New Technol), Omagh (0662) 449431

In Scotland the Regional Software Distribution Centres will be able to help. Contact SCET for detailed information on these (see page 7). Enquiries which cannot be dealt with by these centres should be addressed to Regional Directors of Education.

*Borders	Dir of Ed, Newtown St Boswells (089) 682 23301
*Central	Dir of Ed, Viewforth (0786) 3111
*Dumfries & Galloway	Dir of Ed, Dumfries (0387) 63822
*Fife	Dir of Ed, Kirkcaldy (0592) 262351
*Grampian	Dir of Ed, Aberdeen (0224) 682222
*Highland	Dir of Ed, Inverness (0463) 234121
*Lothian	Dir of Ed, Edinburgh (031) 229 9292
*Orkney	Dir of Ed, Kirkwall (0856) 3535
*Shetland Isles	Dir of Ed, Shetland (0595) 3535
*Strathclyde	Dir of Ed, Strathclyde Region, Glasgow (041) 204 2900 Divisional Education Officers - Argyll and Bute, Dunoon (0369) 4000 Ayr, Ayr (0292) 266922 Dunbarton (0389) 65151 Lanark, Hamilton (0698) 282828 Renfrew, Paisley (041) 889 5454
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*Western Isles	Dir of Ed, Isle of Lewis (0851) 3773

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Bufton, N (editor), Exploring mathematics with microcomputers, MEP Readers 8, 1986. £10.00 .....

Burton, J and Beck, J, PRESTEL & Microviewdata in Education: educational viewdata training course, 1985. £25.00 .....

Burton, J and Taylor, J, Educational viewdata start-up & user guide 2 vols + disc, 1985. £35.00 (State BBC, RML 380Z or 480Z disc required). .....

Chandler, D (editor), Exploring English with microcomputers, MEP Readers 1, 1983. £4.00 .....

Farley, M and Meredith, M D, The development of a programmable hand-held learning aid, MEP information guide 5, 1983. £5.00 .....

Gibson, D (editor), Wordprocessing and the Electronic Office. MEP Readers 2, 1983. £10.00 .....

Gilbert, L A, The Distribution of Microcomputer Software for Education: a Report, 1985. £7.50 .....

Gilman, J A, Information Technology and the School Library Resource Centre, 1983. £12.00 .....

Hope, M (editor), The Magic of the Micro: a resource for children with learning difficulties, MEP Readers 7. £8.00 .....

Jones, R, Microcomputers in the primary school: a before-you-buy guide, MEP information guide 1, 1982. £4.50 .....

Jones, R (editor), Five of the best: computer programs in primary schools, MEP case study 2, 1982. £5.00 .....

Knowles, C & Bell, P, Distribution of Educational Software through PRESTEL, 1984. £7.00 .....

Meredith, M D and Briggs, B I, Bigtrack plus. MEP case study 3, 1982. £6.50 .....

Ross, A, Making Connections: developing the primary school curriculum using a microcomputer for information retrieval. MEP case study 5, 1984. £6.00 .....

Smith, C (editor, Exploring Biology with Microcomputers. MEP Readers 4, 1985. £10.00 .....

Stewart, J (editor), Exploring Primary Science & Technology with Microcomputers. MEP Readers 5, 1985. £7.00 .....

Thompson, V, Brown, M and Knowles, C, Videotex in Education: a new technology briefing, 1982. £3.00 .....

Wace, G, Never Mind the Technology - Think of the Information! 1986. £4.50 .....

Watson, D (editor), Exploring geography with microcomputers. MEP Readers 3, 1984. £9.00 .....

Wilkes, J (editor), Exploring History with Microcomputers. MEP Readers 6, 1985. £10.00 .....

Free Publications

Hawkridge, D, Information Technology in Initial Teacher Training, 1984. .....

USPEC 26: Modems and Acoustic Couplers, 1985. .....

USPEC 32A: A Guide to the Selection of Printers for Microcomputers, 1982. .....

USPEC 32B: Word Processing Systems in Education, 1982. .....

USPEC 32C: A Guide to the Use of Microcomputers for real-time applications in control/monitoring systems, 1984. .....

USPEC 32D: Videotex Systems in education, 1984. .....

USPEC 32E: Local Area Networks, 1985. .....

USPEC Information Sheet No 1: Compact audio discs, 1985. .....

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CET Information Sheet No 9: IT in Educational Administration & Management, 1985. .....

CET Information Sheet No 10: Videotex, 1985. .....

CET Information Sheet No 11: an Introduction to Information Technology in Training & Education, 1986. .....

CET Information Sheet No 12: Supported Self Study, 1986. .....

Briefing: MESU and children with special needs: how it works and what it does, 1986. .....

CET News. Published 3 times a year. .....

Courses Leading to Qualifications in Educational Technology 1986-7. .....

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